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CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-11-20-05**	**Date: 25-11-17**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.	
Address	:	Project division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13	
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010	
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-11-17	
Sample ID No	:	2017-11-20-05/02	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	21/11/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.24	100.28	1.316	4445	93.7	21.1	19.6	24.5
2	Cover Slab-2	75.36	100.33	1.322	4460	94.3	21.1	19.7	24.6
3	Cover Slab-3	75.44	100.37	1.318	4469	96.5	21.6	20.1	25.1

Note:

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-11-17

Lab ID	:	CP-2017-11-15-03
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-11-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	–
2	Finess by Air permeablity method (m^2/kg, Min)	286.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-11-15-03 **Date: 14-12-17**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-03/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-11-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-15-03** **Date: 19-11-17**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-03/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	16-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	453	453	3.0	97.0	90-100
3	20 mm	5679	6132	40.9	59.1	30-70
4	10 mm	4558	10690	71.3	28.7	10-35
5	4.75 mm	3932	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-15-03** **Date: 19-11-17**

Sample ID No : 2017-11-15-03/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.23	_

Note:
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-15-03** **Date: 18-11-17**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-03/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	236	236	4.7	95.3	90-100
3	10 mm	2534	2770	55.4	44.6	25-55
4	4.75 mm	2023	4793	95.9	4.1	0-10
5	Pan	207	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-11-15-03 Date: 18-11-17

Sample ID No : 2017-11-15-03/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-11-15-03** **Date: 18-11-17**
Customer	:	Assistant Executive Engineer, Project division, BBMP, Bangalore.
Address	:	Project division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains near Mallikarjuna temple PK's colony slum in Mallasandra Ward no.13
Agency	:	Technical Manager, KRIDL, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/PD/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-11-17
Sample ID No	:	2017-11-15-03/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-11-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	134	216	21.6	78.4	60-95	75-100	85-100	95-100
4	1.18 mm	155	371	37.1	62.9	30-70	55-90	75-100	90-100
5	600 micron	176	547	54.7	45.3	15-34	35-59	60-79	80-100
6	300 micron	185	732	73.2	26.8	5-20	8-30	12-40	15-50
7	150 micron	184	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-15-03**

Date: 18-11-17

Sample ID No : 2017-11-15-03/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.05	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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